

Title (en)

MULTISPECTRAL IMAGING AND CHARACTERIZATION OF INTERNAL BIOLOGICAL TISSUE

Title (de)

MULTISPEKTRALABBILDUNG UND CHARAKTERISIERUNG VON INNEREM BIOLOGISCHEM GEWEBE

Title (fr)

IMAGERIE MULTISPECTRALE ET CARACTERISATION DE TISSUS BIOLOGIQUES INTERNES

Publication

EP 1305768 A4 20050511 (EN)

Application

EP 01948787 A 20010627

Priority

- US 0120524 W 20010627
- US 60464500 A 20000627

Abstract (en)

[origin: US6307957B1] A light image is conveyed from a biological tissue through a flexible optical system to an image receiver, where it is converted to a form which may be entered into a computer. The computer segments the image by generating a segmentation mask defining the boundary of a region of interest in at least one spectral band, estimates at least one rotationally and translationally invariant statistical measure of coefficient distributions of the multiscale wavelet maxima representations of the digital images in at least one spectral band, characterizes the condition of the tissue based on the estimated values, and outputs the characterization of the condition of the tissue.

IPC 1-7

A61B 5/00

IPC 8 full level

A61B 5/00 (2006.01); **A61B 5/103** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)

A61B 1/00163 (2013.01 - EP US); **A61B 5/0059** (2013.01 - EP US); **A61B 5/0084** (2013.01 - EP US); **A61B 5/442** (2013.01 - EP US); **A61B 5/445** (2013.01 - EP US); **A61B 5/726** (2013.01 - EP US); **G06T 7/0012** (2013.01 - EP US); **G06V 20/695** (2022.01 - EP US)

Citation (search report)

- [XD] WO 9944010 A1 19990902 - GUTKOWICZ KRUSIN DINA [US], et al
- See references of WO 0201143A2

Citation (examination)

- WO 9960377 A1 19991125 - SPECTRX INC [US], et al
- WO 0013578 A1 20000316 - HYPERMED IMAGING INC [US], et al
- WO 9947041 A1 19990923 - UNIV TEXAS [US], et al

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 6307957 B1 20011023; AU 7022001 A 20020108; EP 1305768 A2 20030502; EP 1305768 A4 20050511; WO 0201143 A2 20020103; WO 0201143 A3 20020711

DOCDB simple family (application)

US 60464500 A 20000627; AU 7022001 A 20010627; EP 01948787 A 20010627; US 0120524 W 20010627